

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of the existing traffic control signal at the intersection of US 1 and the entrance to St. Joseph's Church in Baltimore County, Maryland. US 1 is considered to run in a north/south direction.

II. INTERSECTION OPERATION

The intersection currently operates in a NEMA four (4) phase, full-traffic-actuated mode. There is an exclusive/permissive lagging left turn phase for the northbound movement of US 1. The US 1 through movements operate concurrently. The entrance to St. Joseph's Church through movements operate alone with an actuated pedestrian movement across the south leg of the intersection.

There will be no operational change at the intersection.

The existing cabinet, controller, and loop detectors will be utilized.

EQUIPMENT LIST

A. Approved S.H.A. equipment to be purchased by the Developer and installed by the Contractor. All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Specification Section	Description
1	EA	818	14 ft. steel pedestal pole with break away transformer base. (Note: four 1 in. x 40 in. anchor bolts).
1	EA	814	12 in., one-way, five section (12 in. R,Y,G,YA,GA) adjustable black faced traffic signal head with post top mounting hardware and tunnel visors.
1	EA	813	30 in. x 36 in. R 3-5(R) sign with span wire mounting hardware.
1	EA	813	30 in. x 36 in. R 3-5(L) sign with span wire mounting hardware.
2	EA	813	18 in. x 24 in. R 4-7 sign for ground mounting.

B. Equipment to be furnished and/or installed by the Contractor. All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Specification Section	Description
Lump Sum	LS	108	Mobilization.
Lump Sum	LS	104	Maintenance of traffic.
1	EA	811	Handhole.
510	LF	815	Sawcut for signal loop detector.
1805	LF	810	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.
15	LF	810	2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).
140	LF	810	7-conductor electrical cable (No. 14 A.W.G.).
10	LF	804	Bare copper stranded ground wire (No. 6 A.W.G.).
1	EA	804	Ground rod - 3/4 in. diameter x 10 ft. length.
12	LF	805	1 in. liquid tight flexible non-metallic conduit for loop detector sleeve.
50	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
50	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - slotted.
.7	CY	801	Concrete foundation for traffic signal equipment.
65	LF	556	24 in. wide HAPPTPM - white for stop line.
25	LF	812	4 in. x 4 in. wood sign support.
135	LF	---	Remove existing pavement marking by grinding.
Lump Sum	LS	---	Remove and dispose of existing equipment.
Lump Sum	LS	---	Rerun existing wire.
Lump Sum	LS	---	As-built for S.H.A. (on CADD).

C. Materials to be removed by the Contractor. All equipment and/or material removed are to become the property of the Contractor.

Phase Chart

	1	2	3	4	5	6	7	8-9
Phase 1 & 5	G	G	G	G	R	R	DW	
1 Change	G	G	G	Y	Y	R	R	DW
Phase 2 & 6		G		R	R	R	R	DW
2 & 6 Change		Y		R	R	R	R	DW
Phase 4	R	R	R	R	R	G	G	DW
4 Change	R	R	R	R	R	Y	Y	DW
Phase Alt 4	R	R	R	R	R	G	G	WK
Ped Clearance	R	R	R	R	R	G	G	FL/DW
Alt 4 Change	R	R	R	R	R	Y	Y	DW
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	DARK

10-13	
Flashing Operation	FL/Y

CONTACT LIST

The contact persons for District #4 are as follows:

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District Engineer  
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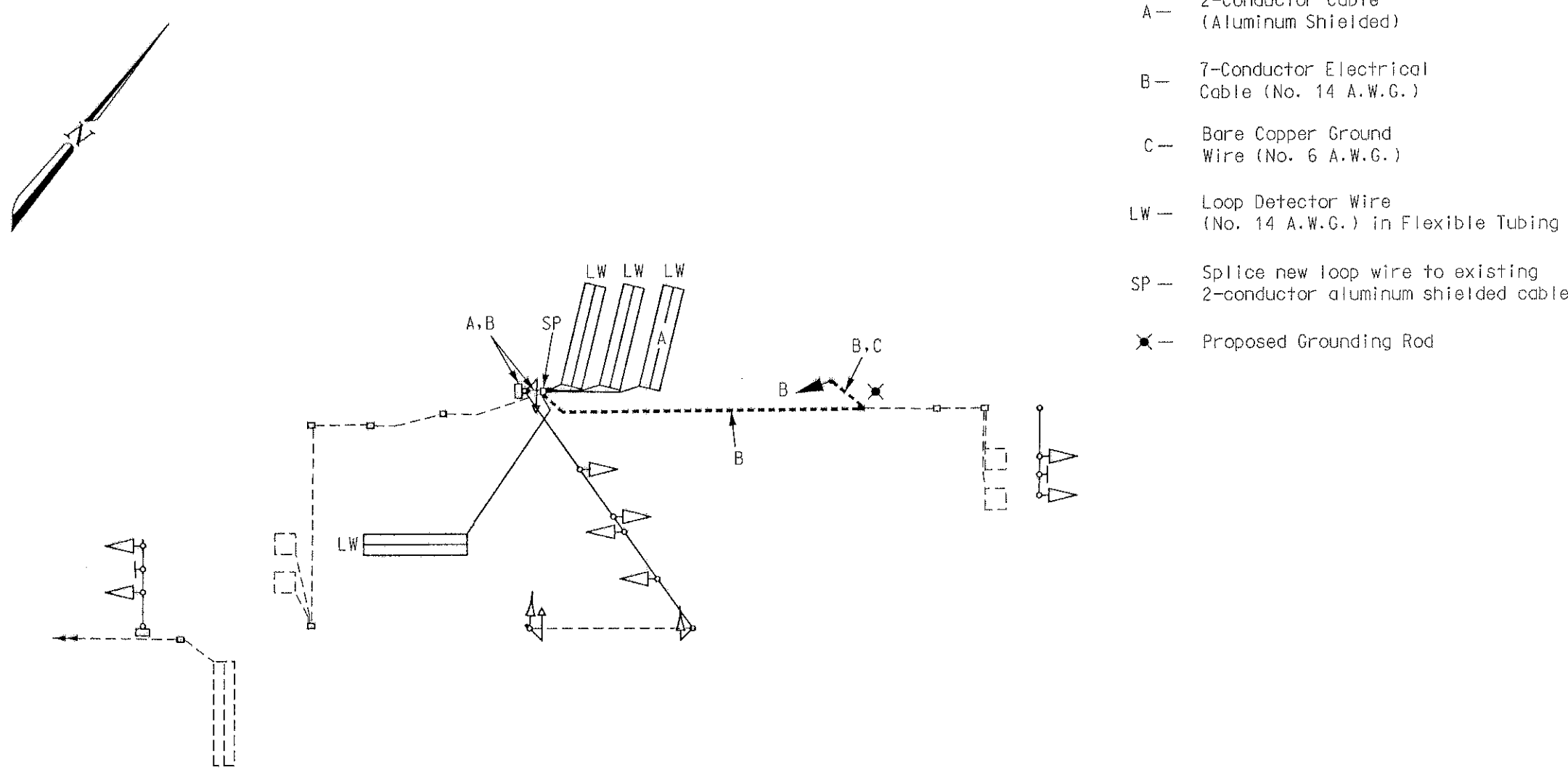
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Wiring Diagram



<div>Revision "A"</div> <div>The Traffic Group The Traffic Group, Inc. 410-931-6600 Fax 410-931-6601</div>	APPROVALS		<div> MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic &amp; Safety TRAFFIC ENGINEERING DESIGN DIVISION (General Information Plan) US 1 at Entr. to St. Joseph's Church</div>	
	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION			
	ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION			
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION			
	DIRECTOR, TRAFFIC & SAFETY			
DRAWN BY: J. Storck		F.A.P. NO. N/A	TS NO. 1451A	SHEET NO. 2 OF 2
CHECKED BY: N/A		S.H.A. NO. BW996M82	T.I.M.S. NO. E-440	
SCALE: N/A		COUNTY: Baltimore		
DATE: March 26, 2001		LOG MILE:		